

RISE AND FALL OF THE WATERS ON THE NORTHERN LAKES.

At a meeting of the American Academy, February, 1849, Mr. Foster, of the United States Mineral Survey in the Northwest Territory, presented the result of some observations undertaken with a view of determining whether the waters of the northern lakes are subject to any movements corresponding to tidal action. The result of these observations had convinced him that these waters do not rise and fall at stated periods, corresponding to the ebb and flow of the tide, but are subject to extraordinary risings, which are independent of the influence of the sun and moon. These risings attracted the attention of the earliest voyagers in these regions. Charlevoix, who traversed the lakes nearly a century ago, says, in reference to Lake Ontario,—"I observed that in this lake there is a sort of reflux and flux, almost instantaneous; the rocks near the banks being covered with water and uncovered again several times in the space of a quarter of an hour, even if the surface of the lake was very calm, with scarce a breath of air. After reflecting some time on this appearance, I imagined it was owing to springs at the bottom of the lake, and to the shock of their currents with those of the rivers which fall into them from all sides, and thus produce those intermitting motions." The same movements were noticed by Mackenzie, in 1789; by an expedition under Col. Bradstreet, in 1764; on Lake Erie in 1823, and at various later periods. In the summer of 1834 an extraordinary retrocession of the waters of Lake Superior took place at the outlet of Sault Ste. Marie. The river at this place is nearly a mile wide, and in the distance of a mile falls 18-5 feet. The phenomena occurred about noon. The day was calm, but cloudy. The water retired suddenly, leaving the bed of the river bare, except for a distance of thirty rods, and remained so for nearly an hour. Persons went out and caught fish in pools formed in the depressions of the rocks. The return of the waters is represented as having been very grand. They came down like an immense surge, and so sudden was it, that those engaged in catching fish had barely time to escape being overwhelmed. In the summer of 1847, on one occasion, the water rose and fell, at intervals of about fifteen minutes, during an entire afternoon. The variation was from 12 to 20 inches, the day being calm and clear; but the barometer was falling. Before the expiration of forty-eight hours, a violent gale set in. At Copper Harbor, the ebb and flow of the water through narrow inlets and estuaries has been repeatedly noticed when there was not a breath of wind on the lake. Similar phenomena occur on several of the Swiss lakes. Professor Mather, who observed the barometer at Copper Harbor during one of these fluctuations, remarks:—"As a general thing, fluctuations in the barometer accompanied fluctuations in the level of the water; but sometimes the water-level varied rapidly in the harbor while no such variations occurred in the barometer at the place of observation."

As a general rule, these variations in the water-level indicate the approach of a storm, or a disturbed state of the atmosphere. The barometer is not sufficiently sensitive to indicate the sudden elevations and depressions, recurring, as they often do, at intervals of ten or twelve minutes; and the result of observations at such times may, in some degree be regarded as negative. Besides, it may not unfrequently happen, that, while effects are witnessed at the place of observation, the cause which produced them may be so far removed as not to influence the barometer. We are, therefore, led to infer that these phenomena result, not from the prevalence of the winds acting on the water, accumulating it at one point and depressing it at others, but from sudden and local changes in the pressure of the atmosphere, giving rise to a series of barometric waves. The water, conforming to the laws which govern two fluids thus relatively situated, would accumulate where the pressure was the least, and be displaced where it was the greatest. It has been remarked by De la Beche, that a sudden impulse given to the particles of water, either by a suddenly increased or diminished pressure, would cause a perpendicular rise or fall, in the manner of a wave, beyond the height or depth strictly due to the mere weight itself. The difference in the specific gravity of the water of the lakes and the ocean may cause these changes to be more marked in the former than the latter.

A HAPPY DISPOSITION.—Mrs. F. B. Hall says "I was married for my money. That was ten years ago, and they had been ten years of purgatory. I have had bad luck as a wife, for my husband and I have scarcely one taste in common. He wishes to live in the country, which I hate. I like the thermometer at 75 degrees, which he hates. He likes roast pork, which I hate; and I like minced veal, which he hates. There is but one thing which we both like; and that is what we cannot both have, though we are always trying for it—the last word. I have had bad luck as a mother, for two such huge unmanageable boys never tormented a feeble woman since boys began. I wish I had called them both Cain. At this moment they have just quarrelled over their marbles. Mortimer has torn off Orville's collar, and Orville has applied his cold-heel to Mortimer's ribs; while the baby Zenobia, in my lap, who never sleeps more than half an hour at a time, and cries all the time she is awake, has been roused by their din to scream in chorus.—I have had bad luck as a housekeeper, for I never could keep a chamber-maid more than three weeks. And as to cooks, I look back bewildered on the long phantasmagoria of faces flitting stormily through my kitchen, as a mariner remembers a rapid succession of thunder gusts and hurricanes in the Gulf of Mexico. My new chamber-maid bounced out of the room yesterday, flitting her duster, and muttering 'Real old maid after all!' because I showed her a table on which I could write 'slut' with my finger in the dust. I never see my plump, happy sisters, and then glance in the mirror at my own cadaverous, long doleful visage, without wishing myself an old maid. I do it every day of my life. Yet half of my sex marry as I did—not for love, but for fear—for fear of dying old maids."

The beauty of a rainbow vanishes in the storm; the meteor is but a moment; the glittering gems of heaven will one day go out; the sun himself be extinguished; but the star of Hope shines beautiful forever.

A guilty conscience needs no answer

TO THE AFFLICTED.

OAK-OIL, the Panacea, the Positive Curative.

The proprietor and inventor will state his reputation, that this Oak-Oil will cure all the diseases not only relieve, but cure. Deafness, Weak Eyes, Sore Eyes, Diarrhea, Piles, Salt Rheum, Chills, Erysipelas, Fistula, Dandruff or Scrofula on the head, Neuralgia, The Douloureux, Rheumatism, Headache, Burns, Scalds, Sore mouth and lips, Fresh Cuts, Catarrh in the head, Bruises and Sprains, in many cases the Teeth Ache, any old Sore Leg, Barbers Sore Face, Chaps in the groins or other part, St. Anthony's Fire, Prickly Heat, Dis-eases of the Spine, Rupture, prevents the hair from falling out, by making the skin of the head healthy and opening the pores, any kind of Cancer or Canker, and all the different Bashes or Eruptions of the skin, Chills Fever, Fever and Ague, Lung Fever, Cramp in the feet, legs or stomach, Bilious Fever, and many other maladies are cured as if by magic! To insure a cure only follow directions. This Oak-Oil being very lately made public, the proprietor would refer to the best men and families in the State, for its wonderful curative properties. The afflicted can easily write to any of the persons certifying to its merits. This Oak-Oil needs only to be used, to be appreciated in any disease that the flesh of man is heir to; and all this can be done without paying a cent. A good dollar a visit—only exercising a little good common sense and by applying effectually the Oak-Oil.

Certificate of the right Rev. Peter Paul LeFebvre, Bishop, Coadjutor, &c., of the Catholic church of the Diocese of Detroit.

Mr. James Scribner—Esteemed Sir: Please allow me to say to you, that notwithstanding my very great aversion to cure all medicines, I have applied your Oak Oil to my head which relieves it of an apparent load or weight, and gives me a very pleasant sensation; the same to my eyes, and I have used it in case of the chafe, with very gratifying and healing effects. And sir, I wish you would have a supply of it left some where in this city, that I may direct other persons as to its very happy effects.

Yours, with great respect,
PETER P. LEFEBVRE, B. C. C. C. D. D.

Certificate of Mr. Jeremiah Godfrey, for sixteen years a resident of Detroit, twelve years of the firm of Atkinson & Godfrey, formerly of Illinois N. Y.

Mr. James Scribner—Dear Sir: Please allow me to certify that I have been a sufferer from diseases of various kinds from 1831 up to this date, and at one time did quit my business of Painting, on the advice of a physician, and returned to the painting business and followed it until about a year since, during which time, and until I met you, and you administered your Oak Oil to me, I never knew what it was to enjoy a well day, and I have been relieved of a partial deafness, my head has become clear, and in short, I feel as if I had been entirely made over, and as it were, entered upon life all of a new; and, indeed, I owe so much to you or your Oak Oil, that I am willing to do or say anything to induce you to extend the knowledge of your Oak Oil throughout the entire world, and the Oil with the knowledge; and please allow me to further say that I have sent dozens of persons afflicted with sore eyes, sore heads, deafness and burns, to your Depot, and I have heard but one opinion from hundreds in the city of Detroit, and that is that the Oak Oil has helped and cured them, and if I can do any thing to help you in any other way, you are at liberty to call and command it of me.

Yours, with esteem,
JEREMIAH GODFREY.

This Oak-Oil may be freely used, as it is true that if there is no disease, there is no effect produced other than a prevention of disease; and the afflicted have only to inquire of any person who has used this invaluable curative, (Oak-Oil), to know the above facts. JAMES SCRIBNER, Proprietor.

For sale by Ferry & Sons, C. B. Albee, Henry Griffin, Harry Eaton, F. B. Gilbert and at the office of the Grand River Times, by Barnes & Angel, general agents for Grand Haven and surrounding country.

P. S. The Oak-Oil is superior to Sloan's medicines in all diseases of horses—applied according to directions given in cases of human diseases.

DIAMOND POINTED.—\$1.50 for Pen and Holder. Persons in want of a fine diamond Gold Pen, with a smooth point, will find a large assortment to select from, at the manufactory, 117 Jefferson Avenue, state-colored front. Damaged pens re-pointed, medium 50 cents, engraving 75 cents. Also, watch repairing, such as chronometers, duplex, anchors, patent levers, lapine and common watches, cleaned and repaired by skillful workmen. Also, a good stock of watches, jewelry and silver ware, at reduced prices.

Damaged Pens sent by mail enclosing the amount for repairs in Post Office Stamps will be promptly attended. Detroit, 1851.

SALVING ON SHARES.—The subscriber will saw during the season of 1852, 3,000,000 feet of best quality pine logs, for one half. He will receive the logs in rafts, at any point on Lake Michigan, and deliver the lumber on the dock, at his steam mill. He has also a siding machine, in operation, which he will run at the same rate, in connection with his saw mill. [90m.] Muskegon, Sept. 1, 1851. GEORGE RUDIMAN.

MARSHAL SALE.—By virtue of an execution issued out of and under the seal of the Circuit Court of the United States, for the District of Michigan, against the goods and chattels, lands and tenements of John Stropach. I have levied upon all the right, title and interest of said John Stropach in and to the following described lands and tenements to wit: South-west quarter of the south-west quarter of section number fifteen, (15) and the west half of the south-east quarter of section number twenty-two, (22) in township number twenty-one, (21) north of range number sixteen, (16) west; also south half of the north-east quarter of section number eight, (8) town number twenty, (20) north of range number fourteen west; also the north-east quarter of the south-east quarter and the south-east quarter of the north-east quarter of section number twenty-one, (21) and the north-west quarter of the south-west quarter and the south-west quarter of the north-west quarter of section number twenty-two, (22) in township number twenty-one, (21) north of range number sixteen, (16) west; which I shall by virtue of said writ, sell at public auction on the highest bidder, on Friday, the nineteenth day of December next, at ten o'clock in the forenoon of that day, at the Court House in the village of Grand Haven, in the County of Ottawa, State of Michigan. Dated October 20th 1851.

CHAS. H. KNIX, U. S. Marshal.
By G. C. NELSON, Dep. U. S. Marshal.

FIRE! FIRE! FIRE!!!
The **Etina Insurance Company of Utica, N. Y.** CAPITAL STOCK, \$125,000.

The undersigned having been appointed agent for the above Company, is now prepared to insure Dwelling Houses, Stores and all kinds of buildings, Household furniture, Merchandise and other property and the risk of inland navigation and transportation against loss, or damage by fire. Also, Steam Mills, Lumber Yards, Machine shops and Foundries. He will also insure property under the **Farmers Mutual Department**, at low rates. Vessels and Steamboats will be insured under the **Marine Department**. Office, Water street, Grand Haven, Michigan. WILLIAM M. FERRY, Agent.

TO all whom it may concern, Notice is hereby given that the copartnership heretofore existing between George Farnsworth, of Pier Marquette, Mason County, State of Michigan, and Merritt B. Atwater, of the same place, under the firm and name of Farnsworth and Atwater, is this day dissolved by mutual consent. [130w.] Dated at Racine, Oct. 20, 1851.

WHITE Fish and Trout, in half barrels, just received and for sale cheap by C. B. ALBEE.

SHERIFF SALE.—By virtue of an execution issued out of the County Court for the County of Ottawa, Michigan, to me directed and delivered, against the goods and chattels, lands and tenements of Bethel Church, in favor of Farmer Church. I have levied upon all the right, title and interest of said Bethel Church, of in and to the following described property, to wit: The north-east quarter of section thirty-three, (33) the east half of the south-east quarter of section twenty-eight, (28) the south-east quarter of the south-west quarter of section twenty-eight, (28) the south-west quarter of the north-west quarter of section thirty-three, (33) the undivided one half of the mill lot and mill, on the south-east quarter of section thirty-three, (33) all in town seven north of range thirteen (13) west; which I shall expose for sale at public auction, as the law directs, to the highest bidder, at the Court House, in the village of Grand Haven, that being the place of holding the Circuit Court for said county, on Friday, the fifth day of December next, at two o'clock in the afternoon of that day. Dated at Grand Haven, this 10th day of October 1851. [150w.] ASA A. SCOTT, Sheriff of Ottawa County.

Mortgage Sale.

DEFAULT having been made in the payment of a certain sum of money secured to be paid by indenture of Mortgage, bearing date the twenty-fifth day of April, A. D. 1848; executed by William C. Comfort and Cornelia A. Comfort, of the County of Ottawa and State of Michigan, to Henry Griffin, of same county and State, and recorded in the office of the Register of said county in Liber A of Mortgages, on pages two hundred & thirty-two and two hundred and thirty-three, on the thirtieth day of May, A. D. 1848, at ten o'clock A. M. On which said Mortgage, there is claimed to be due at the date of this notice, the sum of one hundred and ninety-seven dollars and ninety cents of a dollar, for the recovery of which no suit or proceeding at law, or in equity has been instituted. Notice is therefore hereby given, that by virtue of a power of sale in said Mortgage contained, and according to the statute in said case made and provided, the premises in said Mortgage described, to wit: The east half of the east half of lot number four, (4) fractional section nine, (9) situated on the north bank of Grand River, in the township of Polkton, in said county of Ottawa, in town seven, (7) north of range number fourteen, (14) west, containing six acres more or less, and also the east half of the east half of the south-east quarter of section number four, (4) in said town seven, (7) north, range fourteen, (14) west, as divided by a north and south line, through the centre of the east half of the south-east quarter of said section four, containing four acres more or less, and also the east half of the south-east quarter of the south-east quarter of section number four, (4) in said town seven, (7) north, range fourteen, (14) west, as divided by a north and south line, through 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